GeoVision Inc.
The Vision of Security

GV-IRCAM V1.5 Installation Guide

(10-Meter / 20-Meter Models)

Before attempting to connect or operate this product,
please read these instructions carefully and save this manual for future use.

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IRCAMV15-A-TA

Models

GV-IRCAM offers a selection of models that support different optimal distances and video formats to meet various needs. This installation guide will take you through the functionality and use of GV-IRCAM.

List of Models

Model	Optimal Distance	Video Format
GV-IRCAM 10M EIA DC12V	10 m / 32.80 ft	NTSC
GV-IRCAM 20M EIA DC12V	20 m / 65.61 ft	
GV-IRCAM 10M CCIR DC12V	10 m / 32.80 ft	PAL
GV-IRCAM 20M CCIR DC12V	20 m / 65.61 ft	

Packing List

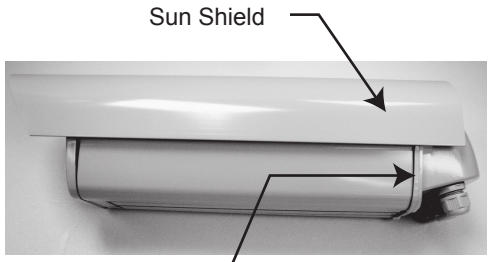
- AC Power Cable (110-125V, 10A) x 1
- Power Adapter (100-240V, 12V/3A) x 1
- Outdoor Mounting Bracket x 1

Specifications

Model	GV-IRCAM 10M EIA DC 12V	GV-IRCAM 20M EIA DC 12V	GV-IRCAM 10M CCIR DC 12V	GV-IRCAM 20M CCIR DC 12V
Distance (optimal)	7~15 m / 22.96 ~ 49.21 ft	15 ~ 25 m / 49.21 ~ 82.02 ft	7 ~ 15 m / 22.96 ~ 49.21 ft	15 ~ 25 m / 22.96 ~ 49.21 ft
Sensor	1/3" B/W EXview CCD			
Resolution	600 TVL			
Lens Focal Length	5 ~ 50 mm, 10X	10 ~ 120 mm, 12X	5 ~ 50 mm, 10X	10 ~ 120 mm, 12X
Construction	Robust aluminum with weatherproof sun-shield			
Protection classification	IP 66			
Environmental	Operation: -20˚C ~ 50˚C / -4˚F ~ 122˚F Storage: -30˚C ~ 60˚C / -22˚F ~ 140˚F			
Power Supply	DC 12V			
Power Consumption	15W	20W	15W	20W
LED Quantity	12 high-efficiency reflex LED	24 high-efficiency reflex LED	12 high-efficiency reflex LED	24 high-efficiency reflex LED
Illumination Range	20M (object of view reflecting IR light)	30M (object of view reflecting IR light)	20M (object of view reflecting IR light)	30M (object of view reflecting IR light)
Illumination View Angle	30˚			
Illuminator Life	25,000 hrs			

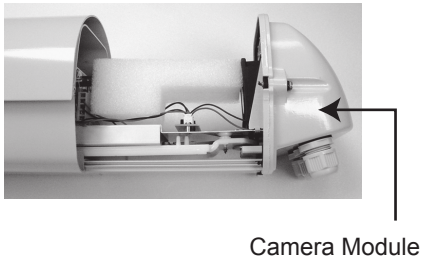
Installing Camera Module

1. Push the sun shield forward to align with the back of camera enclosure.

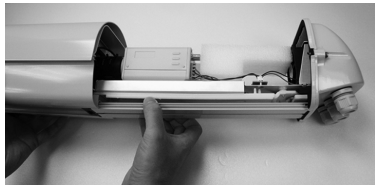


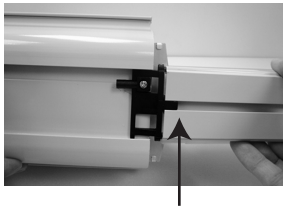
2. Loosen the set screws on the back of the camera enclosure.

3. Pull out the camera module.

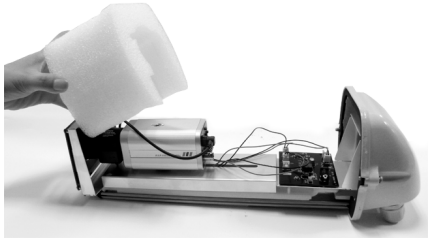


4. Slightly lift the camera module and slide it out completely.

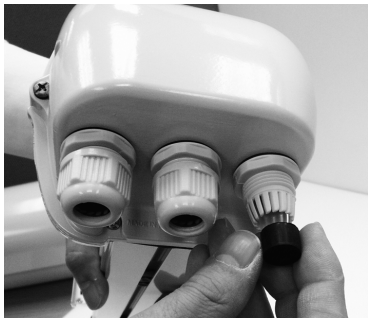




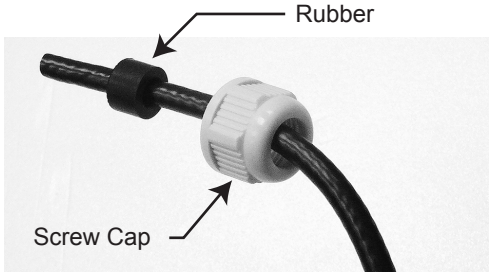
5. Remove the foam.



6. Loosen the screw cap on the right.



7. Insert the video cable through the screw cap and the inside rubber of the cap.



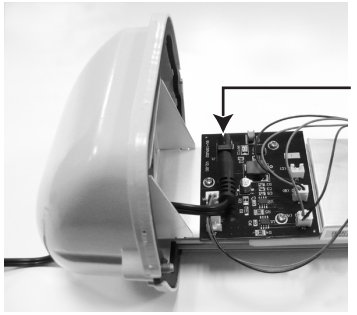
8. Attach the video cable to the BNC connector and plug it into the “VIDEO OUT” jack.

9. Adjust the length of the video cable and seal it with the waterproof tape.

10. Tightly screw the cap.

11. Loosen the screw cap on the left, insert the power cable through the screw cap and the inside rubber.

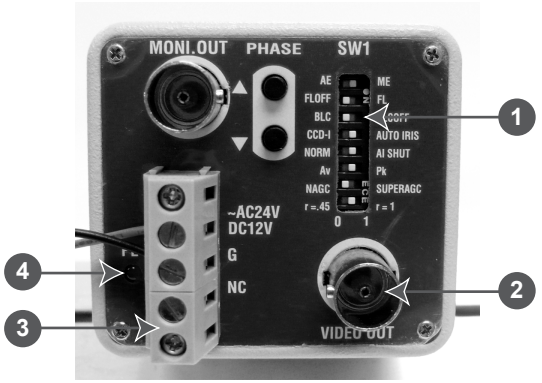
12. Plug the power cable into the DC jack.



13. Adjust the length of the cable, seal it with the waterproof tape, and then tightly screw the cap (see Steps 9 and 10 for the pictures).

Adjusting Camera Settings

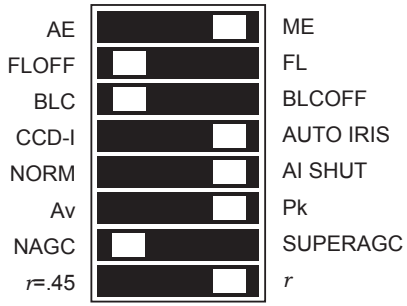
Overview



No	Function
1	Switch Control (For details, see the chart below.)
2	Video Out
3	Power Terminal (It is already connected. Follow Steps 11 to 12 in *Installing Camera Module* to insert the power cable.)
4	Power LED

Switch Control

The switches on the panel are set by default as the picture below shows.



Switch	Description	Switch	Description
AE	Auto Exposure Mode	ME	Manual Exposure Mode
FLOFF	Flickerless off	FL	Flickerless on
BLC	Auto Backlight on	BLCOFF	Auto Backlight off
CCD-I	CCD-Iris	AUTO IRIS	Auto Iris
NORM	Auto Iris + Shutter Mode	AI SHUT	Auto Iris + Shutter Speed
Av	Average Convergence	Pk	Peak Convergence
NAGC	Normal AGC=30dB	SUPERAGC	Super AGC=36dB
r = .45	GAMMA (.45)	*r* = 1	GAMMA (1)

ME Settings

- **Shutter Speed Settings**

SHUTTER SPEED	AE/ME			
1/50(1/60) SEC	ME	FLOFF	BLC	CCD-I
1/120(1/100)SEC	ME	FL	BLC	CCD-I
1/250 SEC	ME	FLOFF	BLCOFF	CCD-I
1/500 SEC	ME	FL	BLCOFF	CCD-I
1/1000 SEC (*)	ME	FLOFF	BLC	AUTO IRIS
1/2000 SEC	ME	FL	BLC	AUTO IRIS
1/4000 SEC	ME	FLOFF	BLCOFF	AUTO IRIS
1/10000 SEC	ME	FL	BLCOFF	AUTO IRIS

- **Gain Control Settings**

GAIN	AE/ME		
0 dB	ME	Av	NAGC
6 dB (*)	ME	Pk	NAGC
12 dB	ME	Av	SUPERAGC
18 dB	ME	Pk	SUPERAGC

Notes:

1. The default settings are marked with (*).
2. The gray areas in the charts are not recommended for use.

Auto Iris Selection

The default setting is DC.

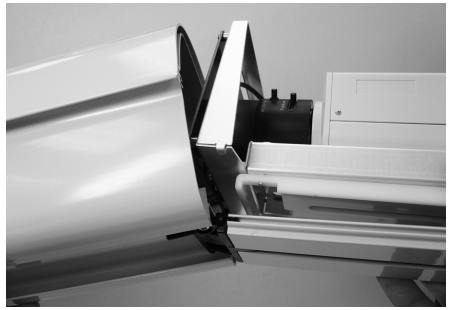
Switch	Description
DC	DC Drive Lens
VIDEO	Video Drive Lens

Installing Camera Enclosure

After the installation of camera module and settings adjustment, you are now ready to install the camera enclosure back.

1. Adjust the lens focus.

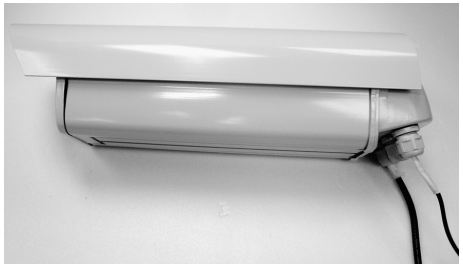
2. Lift the camera module.



3. Align the camera module to the camera enclosure and slide it back.

4. Secure the camera enclosure with the screws on both sides.

5. Push the sun shield back.



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